

WHAT IS CLAIMED IS:

1. A motor comprising:

a rotor;

a stator located external to the rotor and including main and auxiliary
windings;

an outer motor case; and

a plurality of isolators positioned between the stator and outer motor case and
configured to enhance forces applied to a foundation due to excitation of the auxiliary
windings.
2. The motor of claim 1 wherein the isolators are of an elastomeric material.
3. The motor of claim 1 wherein the auxiliary windings generate forces, and
wherein the outer motor case attaches to a foundation and reacts the forces
generated by the auxiliary windings.
4. The motor of claim 1 wherein the isolators are symmetrically positioned about
an axis of the motor.
5. The motor of claim 1 wherein the isolators are positioned to be in shear for
radial and axial deflections and in compression for rotation about an axis of the motor.

6. An electromechanical machine comprising:

a rotor;

a stator located external to the rotor and including main and auxiliary windings;

linear bearings configured to constrain a motion of the stator to an axial direction; and

a plurality of isolators connected to the stator and configured to enhance axial forces applied to a foundation due to excitation of the auxiliary windings.

7. The electromechanical machine of claim 6 wherein the isolators are formed of an elastomeric material.

8. A method for attenuating a force exerted by a stator in an electromechanical machine, comprising:

constraining a motion of the stator to an axial direction using linear bearings;

and

attenuating a force exerted by the stator in the axial direction using one or more isolators.

9. The method of claim 8 wherein the isolators are formed of an elastomeric material.

10. A method for implementing a motor including a rotor and a stator, comprising:
providing an outer motor case, the outer case reacting torque applied by the
stator to the rotor; and
providing a plurality of isolators between the stator and the outer motor case,
the isolators being configured to deflect the torque.